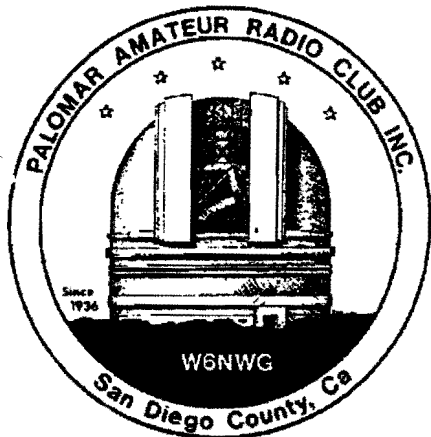




Scope

146.73-, 147.13+, 147.075+, 447.000-, 52.68-; Pkt 146.7-, 145.05

Apr.
'01
pg.1
-37-
1,517

also
ATV & 4 au-

Palomar Amateur Radio Club Inc.

Scope (USPS #076530) Vol. XXVII No. 4, April 2001, published monthly by PARC, 1651 Mesa Verde Dr., Vista, CA, 92084. Periodicals postage pd. at Vista, CA 92085.

Dues \$12/yr or \$21/family/yr (includes newsletter subscription, \$3 in SDCo. & \$4 out of SDCo.)

Editor: Stan Rohrer W9FQN, 30311 Circle R Lane, Valley Center CA 92082

POSTMASTER: Send address changes to SCOPE, P.O.Box 73, Vista CA 92085-0073.

See pg. 12: Contents, Club Calendar, Repeater Use, PARC Frequencies, and PARC Nets.

Send \$12 Dues To:
PARC, Box 73
Vista CA 92085-0073

Club Meeting

Charlie Ristorcelli NN3V@amsat.org

(Meetings are held the 1st Wednesday of each month at the Carlsbad Safety Center in Carlsbad at 7:30 p.m. although most come at 7:00. See map on page 12 for directions -Ed)

April 2001 Program

One of the bedrock "truths" about ham radio is contained in the saying "The contact isn't finished until the QSL is exchanged".

This month's program is going to allow our very own **K3PXX** (Terry) to take a close look at the "art" of QS-Ling.

From examining the early history of exchanging contact report information by snail-mail, and why early hams did so, through the ideas about the QSL bureau and how it operates, all the way to the modern (some say "blasphemous") practice of the "e-QSL", we are going to discuss the subject.

For those of you who know Terry,



sk **KG6AMQ** sk

John Starkey

Died March 23
of a leg blood clot
at Tri-City Hospital

he always has some interesting tricks up his sleeve. So many of you will be surprised to know that Terry is the sole proprietor of one of the longest serving QSL printing services in the country. Yes, many of us have our very own "K3PXX Produced" QS: cards, and have exchanged thousands of them with hams all over the world. Terry is also going to cover how the art of preparing and printing QSL cards changed, and is changing as we speak, over the many years of the practice.

So come on out and enjoy a great evening, peeking into another ritual of the ham operator. And along the way, if you are so moved, join some of the Club members in the informal pre-meeting "dinner sessions" that take place at eateries around the Carlsbad Safety Center.

Many are the talk-ins on the repeater (146.730 MHz) that start around 5:30 PM the evening of the meeting, as some of our Club members congregate before the meeting.

73 de NN3V(Charlie)

**July 4th meeting
to be held on
July 11th!**

so that our members can go forth to
celebrate the Fourth!

Photo

The photo on this page by **KM6XA** Joel Bolado. It was taken at the club 65th anniversary of its founding. If we can get photos to print properly in the Scope, we will have more of them in the future.

Coming Events.

April 04, Wed - Club Meeting

April 11, Wed - Board Mtg. W9FQN?

April 14, Sat - VE testing Carlsbad

33¢ to 34¢

As many of you know, many local clubs are sending out one or two sheet newsletters and they are paying 1st class postage of 34¢ (up from 33¢).

Our 12 page Scope weighs just over 1 oz so if we were mailing at 1st class

Join the **Palomar Amateur Radio Club!**
Send: Callsign (expiration date), class license, name, address, Zip+4, e-mail, phone#, & \$12 single (\$21 family) to PARC, POB 73, Vista CA 92085-0073.

postage rates we would be paying 55¢ per Scope.

Fortunately, back in the days of our previous editor, **K6HAV** Ralph Crossman, he worked with the Post Office and got us signed up for the P.O. "Periodical" rate.

In order for us to get the cheapest Periodical rate we must -

- sort and group all zip codes
- package same zips
- sort Scopes into 8 trays
- put stickers on top of group
- fill out paperwork, calculate cost
- be sending several hundred
- etc

The club pays more for Scopes being sent out of San Diego County. Because of the small number going out of the county we pay approximately 34¢ postage for each Scope. For example, we only send 2 Scopes to Zone 7 but we have to pay for a full pound of Scopes even though the weight is just a little over 2 oz.! In fact, we send out 2.244 pounds of Scope out of the county but have to pay for 7 pounds.

The remaining Scopes are "in county" and the rate we pay depends upon if the groups are 3 Zip or 5 Zip sorted. If the pile has Zips with the 1st 3 digits the same, it is a 3 Zip pile.

For the 3 Zip sorts, we pay 10.16¢ per Scope and for the 5 Zip sorts, we pay 9.26¢ per Scope.

So, lumping all of the Scopes together, we come out with an average cost of 11.16¢ per Scope ... quite a savings from the 55¢ we would have to pay for 1st class. And remember, we are sending 12 pages which is over 1 oz for the first unit of postage. (de **W9FQN**)

Long AGOGO (history)

WA6KZN-K6HAV-KI6JM(sk)-W9FQN

(The purpose of AGOGO is to recall info on file in previous editions of the Scope -Ed)

(04-00)... FD program by **NN3V** & **WN6K** ..San Clemente Island donation ..attendance 74 including 9 visitors ..Pwr Line RFI ..Find a friend **www** ..SDCTN by **N6TEP** ..FD articles ..Topo maps ..patch info

(04-91)... SANDARC FD trophy

presentation by **KB6MCU** ..info on **KA6UAI** & **WB6FMT** patches ..**WB6BHE** sk ..attendance 74 members and 20 guests but head count 101 ..quakes ..80-6m dipole **W9FQN**

Last meeting (not quite)

The March meeting was an excellent reminder by presenter **KC6YSO** David Doan that low antennas are GOOD for local communications in emergencies where VHF and UHF cannot reach into hidden valleys.

Several groups in the San Diego area are using these 80m NVIS antennas for communications: ARES & Red Flag.

Attendance was 75 with 4 guests.

Goodie Table

"Goodie" donations came from **N6ISCP** Paul Lackey, **KD6YJB** Marvin Jones, **K6ISS** Fred Smittle, **N6KI** Dennis Vernacchia, **KF6MYE** Jerry Kopack, and **W6SST** Jim Egerton. You receive an extra activity point for your generosity.

W6SST Jim Egerton & **KD6TUJ** Dennis Baca took care of the Goodie Table. Attendance was 68 and 8 guests.

Fold and Staple

The Scope usually goes "to bed" on the 2nd Friday before the meeting on the 1st Wednesday of the next month.

The Fold and Staple (F&S) operation is on Wednesday of the week before the club meeting and consists of -

- calculating No. of newsletters
- taking Scope to the printers
- printing mailing labels
- picking up Scope from printers
- picking up P.O. cardboard trays
- folding the newsletters
- stapling the newsletters
- putting labels on the newsletters
- filling out P.O. forms (2 pages)
- delivering Scope to Vista P.O.
- waiting to hear if anything wrong

The Scope is received by most members the day following the mailing on

Wednesday. If you don't, it is the fault of your local P.O. We are delivered just like 1st class mail but some P.O.'s might think that the Scope is non 1st class and throw it in a pile until all other 1st class mail is taken care of so complain to your local postmaster.

Board Mtg. (Minutes)

David Patterson **WB6DAV@Juno.com**

Next meeting at **W9FQN QTH**

(Club members are invited to Board meetings at Board members QTH's at 7pm on the Wednesday following the club meeting as announced herein. You receive one participation point for attending. A copy of the complete minutes are at the general meeting.)

Board Mtg. February 14th, 2001

Present: Charlie **NN3V**, Al **W6GNI**, Stan **W9FQN**, Mark **KF6WTN**, Dave **WB6DAV**.

Absent: Mike **AB6QT**, Helmut **KG6ERZ**, Jo **KB6NMK**, Allen **N2DCA**

Meeting called to order at 1920

Treasurers report Stan is acting treasurer due to Jo being in England. Bills to be paid are the Post Office for our P.O. Box and **N6TEP** for related expenses in regards to the traffic net for \$19.21. A motion was made to authorize Jo Ashley **KB6NMK**, Stan Rohrer **W9FQN** and Al Donlevy **W6GNI** to sign checks. Motion was seconded and passed by all board members present.

Stan wrote a letter of thanks to Don Mandel **KB6MLA** for his generous donation.

Sec. report approved as published in the Scope.

Charlie reported that we still have the use of the Safety Center for a meeting place until they start remodeling. Nobody seems to know when that will be.

Al reported that the post office is now charging \$.60 for returned Scopes. Please be sure that you give him your change of address if you move. He also stated that membership is picking up a little.

Charlie stated that the program for March will be Dave **KC6YSO** talking about low altitude antennas.

Mark **KF6WTN** has volunteered to video tape the events leading up to Field Day.

Stan reported 10" of snow at the site with more expected.

The 220 club rental agreement was finalized with the rent remaining the same (\$25 per month) for the rest of this year. Several changes were approved.

P.A.R.C. Inc (2001 Board)

Pres: Allen Maslowski N2DCA 858.642.2400x1229
N2DCA@amsat.org
VP: Charlie Ristorcelli NN3V 858.676.3307
NN3V@amsat.g
Sec: David Patterson WB6DAV 760.727-5560
WB6DAV@amsat.org
Treas: Jo Ashley KB6NMK 760.741.2560
KB6NMK@amsat.org
Dir#1: Mark Raptis KF6WTN 760.749.4825
KF6WTN@amsat.org
Dir#2: Helmut Stroeml KG6ERZ 858.720.0549
Hkstromel2@aol.com
SCOPE: Stan Rohrer W9FQN 760.749.0276
W9FQN@amsat.org
Technical: Mike Doyle AB6QT 760.742.1573
AB6QT@amsat.org
MSh: Al Donlevy W6GNI 760.630.3096
aldonlevy@Juno.com

Board Mtg. 7:00 pm Wednesday of week following the Club meeting as announced.

Treasurer \$\$, \$\$\$

Jo Ashley
KB6NMK @amsat.org

See me at club meetings for "hard copies" of financial statement(s).

We have \$\$ set aside for emergencies at the repeater site in case of fire or earthquake.

Possible Costs: antennas ~\$750ea; tower ~\$3k; buildings ~\$3k; batteries \$?;

Routine: Scope printing ~\$250/mo; Scope postage ~\$65/mo; electricity ~250/mo; phone ~\$50/mo = ~\$615/mo. (Insurance each Nov. ~\$1,100/year)

Under consideration: 6m repeater spare ~\$200; 449.42 repeater spare ~\$100; spare antennas ~\$800; etc ~\$1,100.

Approved expenses not spent: ~\$100 tent trailer; \$110 crystals = ~\$200

Last month's Scope Helpers:

Thanks to Art and Anita for the folding space and the refreshments. Really great cookies. (the greatest!)

KB6YHZArtNye	&	KB6YHYAnitaNye
W6GNIAlDonlevy	&	K6MLJimPaquin
N6UZHTerriBrewer	&	MY2KID & Kimmy
KB6NMKJoAshley	&	KG6AEWBillOwen
WA6YOOHarryHodges	&	WA5ACESonnyStires
W6HCDNashWilliams	&	N6OYGVVictorMusil
W9FQNStanRohrer	&	WA6UTQLarryRueggeger

Next meeting will be at W9FQN's QTH. Meeting adjourned at 2025.

Board Mtg. March 14th, 2001

Called to order by President N2DCAAllen at 1901:30. W9FQNStan acting secretary.

Present: W6GNIAlDonlevy, KB6NMKJoAshley, AB6QTMikeDoyle, and W9FQNStanRohrer.

Absent: NN3VCharlieRistorcelli, KF6WTNMark Raptis, WB6DAVDave Patterson, and KG6ERZHelmutStroeml. Treasurers report approved; \$105 to buy crystals for 447.000; \$204.17 to WB6IQSJohnKuivinen for electricity and many small parts; Joe Taylor left town; July meeting 11th and Board 18th; 224.94 agreement discussed and approved; membership 540+; discussed QSL cards; next Board meeting again at W9FQN QTH; meeting adjourned at 2051:45. Cookies were by KA6FPSBarbara.

President's Message

Allen Maslowski N2DCA@amsat.org

When I brought my TV to the repair shop, I noticed a huge pile of large old surplus parts. I asked him what was with all those parts in the back room. He said that they were donor parts for those hard to find parts situations.

I asked him if he every sold any parts from that pile. He said on occasion that he did but, for a very cheap price.

With that in mind, I remembered that I talked about how the HAMS today are just appliance operators and how the art of home brewing is all but lost in last months Presidents Message.

What a find for that HAM home brewer. That pile of junk got me thinking again. There is one phase of home brewing that I forgot to mention that is very inexpensive for all hams to get there feet wet in making there own equipment. Its making antennas!

The antenna has to be the easiest and cheapest part of our hobby that can we can experiment with. One could construct a very usable antenna for little money, with nothing more that the ARRL handbook for refer-

ence. Wire is very cheap in comparison to the rigs we all use today. Simple wire antennas can be built for any ham band with surprising good results.

If your really frugal you could use salvaged wire from an old transformer or TV yoke. Some of these items can be gotten free, or for a nominal charge, from your local TV repair shop. Traps can be wound on PVC pipe.

I have been experimenting with my antenna systems for over twenty years. Since it's so cheap to do, I've modified some parts of it so many times that I've actually replaced some of the wire sections because there were so many splices in it.

There is one thing to be said from all this experimenting. I've learned allot about wire antennas and trapped dipoles for HF.

I experimented with VHF/UHF antennas as well. My first VHF Through the glass antenna was made with a coat hanger. I got that idea from people putting a coat hanger in the broken base of their car radio antenna mount. Try experimenting. At the very least you need an SWR bridge/ field strength meter for test equipment.

Again I'll say, to get started look in the handbook or on the Internet. There is a tremendous amount of antenna information at your fingertips. Start reading and experimenting. Who knows, you might build the antenna of the century, and learn something new in the process! Have fun, Allen, N2DCA

Goodie Table

It takes many club members to make the club run smoothly.

W6SSTJimEgerton and KD6TUJ Dennis Baca have been taking care of the Goodie Table this past year.

Dennis usually brings a pot for the hot water being used for tea and decaf coffee. Jim brings a pot for the regular coffee.

They both tend to duplicate the supplies so if they run short or one of them forgets, the other one fills in the cups, sugar, etc. Dennis also keeps extra

sugar, creamer, and coffee at his house as part of the club stock.

And of course, we should not forget the club members who bring in goodies for us to munch on before and after the meeting.

Jim and Dennis both receive an extra activity point for their dedication to the Goodie Table and those bringing in goodies receive an extra activity point also.

F&S Workers

Once a month a dedicated group of club members meet at Art and Anita's QTH to fold, staple, label, and mangle the Scope for mailing.

These work parties garner the participants one (1) activity point and a good time is had by all (almost). Some of the latest jokes/stories are told and there is usually much laughter (by most).

The happiness of **W9FQN** is determined by whether his right hand ham is there to help: **N6UZHTerry**. When she is there helping, all other problems seem to disappear or seem insignificant.

These hams at the Fold and Staple seem to automatically form into the required groups without any direction. One group sits at a table folding the Scopes. One ham operates the stapler. This job usually is one that **W6YOO HarryHodges** seems to gravitate to when he is not in the hospital.

Another group splits up and heads to counters, couches, tables, etc. with the folded and stapled scopes to attach labels.

W6GNIAldonlevy provides us with the labels which **W9FQNStan Rohrer** separates by ZIP codes, places them in boxes with the proper P.O. tags. The boxes are then picked up by the labelers to do their thing.

N6UZHTerry helps with the above and makes sure that all of the various groups "come together" while Stan works on the paperwork demanded by the Vista P.O. He has to fill out three copies of a two page P.O. form with information provided by Al from the giant computer label run.

We start at twelve "high noon" and usually finish between 1pm and 1:30pm

depending on whether Terry is present!

The following list is of some of the helpers that have participated on a regular or semi-regular basis:

KB6YHZArtNye & XYL KB6YHY Anita; KF6CBXKeith & XYL N6UZHTerry & MY2KIDTyler/Matt; KimmyAshley; KB6NMKJoAshley; W6GNIAldonlevy & XYLKathy; K6MLJim; WA5ACE Sonny Stires; W6YOOHarryHodges & XYL N6TCBJerry; W9FQNStanRohrer & XYL KA6FPSBarb; W6HCDNash Williams; KG6AEWBill Owns; N6OYG Victor; KC6WANRalphPowell & XYL-Sylvia; N6FMKBillBowen; WA6UTQ LarryRuegseger; KF6USPaul; Bill Hunter; KD6IVFJim

P.S. We need more Democrats in this group to balance out the jokes!

New Members

Al Donlevy aldonlevy@Juno.com

New members that joined PARC in February 2001:

N8WP	Willie Peloquin (Family membership)
KE6ELJ	Alfredo Pulido
KB7XI	Bill Frame
KG6ETH	Tom Daft
KB7RNP	Max Dahmen

In addition, 5 members were reinstated after their membership elapsed.

Notes/e-mails

2.9.01 Sorry I don't come to meetings since retirement. I do enjoy SCOPE and the web site though.

Here is my renewal for two years. Paul Gerard **KQ6AM**

Club Membership

Al Donlevy W6GNI aldonlevy@Juno.com

Good News, another 10 year membership renewal received.

AC8Q has been added to the list of those members that have sent \$120 for ten year memberships. This certainly makes it easier for the membership guy. Thank you.

That's the good news. The bad news is that the Post Office has increased the charge to forward the SCOPE from 50 cents to 60 cents. Maybe first class mail only went up a penny, but the forwarding fee went up a dime. Please

remember your radio club if you move or change your address. 73, Al Donlevy **W6GNI**

Ham Classes

BLIND CENTER: Tech, General and Extra class licensing classes available at Vista Campus of the San Diego Center for the Blind. Reservations required and ability and willingness to learn the Morse Code Alphabet is also required. Seating is on a space available basis. All classes are weekdays starting at 8:30 AM.

Call Larry/**WA6UTQ** 760-758-5820, leave a name and number on the answering machine.

MARA: The Mercury Amateur Radio Association has been conducting some classes in the San Diego Co. area.

The **Penasquitos** class (6:00-8:00) and the Saturday Bonita Class ended yesterday.

The **Bonita** Saturday class (7:00-9:00 am) only had one student. He is well prepared, has already signed up to take the test in Chula Vista on the 24th.

The **Bonita** Thursday Night class (6:30-8:30 pm) has only four students. Bob Moore, **KF6YVC**, reports that all are doing well.

Our only problem is that two of the students work Saturdays, during normal testing hours.

My group is looking at offering a Technician Class in the Santee area, Del Mar area, and/or the Vista area in the near future.

Nothing will be definite until after the MARA membership meeting on Saturday the 17th, and the SANDARC meeting on the 29th(?).

MARA policy is:

- 1) Encourage the potential students' use of established club classes, such as PARC and ARCEC when possible.
- 2) Provide a class when only potential students schedules will not allow them to attend a local club class. Many of our potential student have meetings, school, family obligations that will not permit weekday evening courses, hence the typical 6 AM to 8AM Saturday Schedule.

3) When a class is offered, it is open to anyone, free of charge. The students only costs will be their acquisition of "Now You're Talking."

NO8RF: James Pratt has been working with several individuals who have recently become hams. Tnx, Jim.

(if there is anyone else out there working with individuals or small groups, please let your editor know about it)

MMTTY (sound card)

Hi, here is the URL for the RTTY sound card program plus some other interesting items:

www.geocities.com/mmhamsoft
73, Harry Harry A. Hodges, **W6Y00**
ARRL ASM - VE Team Leader

NVIS Coverage

Not everyone has space for a NVIS antenna on 80 or 40 meters. It would be interesting to set up a NVIS station which could be accessed through our Palomar Mountain site on 2m or 70cm giving emergency groups and club members access to good local coverage on a band that they do not have antenna space for in their back yard.

Hams in Blimp

Three members of the Catalina Amateur Repeater Association recently got

to fly - really fly - the Goodyear blimp. Each took the controls for about a half hour and, because the blimp moves so slowly and flies so low, they could "look right into everybody's back yards and see who's flipping hamburgers at the barbecue."

Short story and photos at:

<http://www.amasa.com/caraclub/blimp.html>
(from W6VR Bob's CGC newsletter -Ed)

.hk

Question: some of my e-mail comes through with hk on the end. What does this mean?

Answer: .hk is Hong Kong
You can find all countries domain registries at URL at:

<http://www.norid.no/domreg.html>
73 From Rod AC6V In San Diego
700 Ham Topics & 6,000 Links
<http://ac6v.com/>

Bill: HR 817 (update)

The Amateur Radio Spectrum Protection Act of 2001 is now officially HR 817. Rep Michael Bilirakis of Florida introduced the bill on March 1 in the US House of Representatives.

The bill seeks to amend the Communications Act of 1934 by requiring that the FCC make no reallocation of primary Amateur and Amateur-Satellite allocations, diminish any secondary allocations, or make additional allocations

within amateur allocations that would substantially reduce their utility without also providing equivalent replacement spectrum.
<http://www.arrl.org/arrlletter/01/0309/>
(via W6VR's CGC #348 newsletter)

224.940

For the past year or so the PARC Board has been struggling with an agreement with the 220 Club of San Diego, now combined with the Convair Club, with a new name of Convair/220 Club.

After several exchanges of views, the PARC Board has arrived at the wording of the agreement and will be sending it to the new Convair/220 Club for their signature.

There were several disagreements between the two groups on several points. The final agreement which is being sent to them signed by PARC accepted some of their suggestions and rejected others.

One of the sticking points was the rent of \$25 which they have been paying PARC for many years. PARC's point was that this was arrived at years ago and with the increased expense at the site along with the almost doubling of the electric bills, that their rent should be raised.

The Convair/220 Club argued that they should only be using for the elec-

HAM
RADIO
OUTLET

Tom KM6K
Ron N6OMW
Jose XE2SJB
Bob KA6EKT

H
R
O

KENWOOD
rf CONCEPTS
DIAMOND
US TOWERS
KANTRONICS
YAESU
MFJ, ICOM
BENCHER, Inc.
HUSTLER
COMET
AMERITRON

Astron,
AEA,
OUTBACKER
Larsen Antenas
TEN-TEC
hy-gain, Tri-EX,
cushcraft
and
others too
numerous to
mention!

Drop in to see our display of working equipment.
Find out about Pkt location determining equipment (APRS).
Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.

Open: 10a.m. - 5:30p.m.
Monday thru Saturday
858 560-4900 or toll free 1-800-854-6046
5375 Kearny Villa Rd, S. D.

Ask about our great prices

Dec98

Directions: On 163, take Clairemont Mesa Blvd. off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and HRO sign. Be sure to see our equipment in action on real antennas.

tricity that they use and that they should not have a rent increase since they were going in the hole each year despite a treasury of over \$7,000 which mostly came from the old Convair club.

The next opportunity for PARC to institute a rent increase will be January 1st, 2002.

Challenge Cup

Dave Donnelly

KF6XA@qsl.net

I have volunteered for the Baker-to-Vegas Challenge cup radio team, and received my info packet today and I would like to share some of the information in it.

Ham volunteers are still needed to provide communications for the annual **Baker-to-Vegas Challenge Cup Relay**, which will be run this year April 7-8.

The race starts about 19 miles north of Baker at 1530 local time Saturday afternoon, and concludes about 24 hours later in Las Vegas.

There are twenty stages where runners change, and four to six hams are needed at each stage. Others are needed at the start and finish, and for backup.

The communications coordinator reports lower-than-usual numbers of volunteers this year due to other events happening on the same dates.

Each stage is open less than ten hours, and communications is primarily via 2 meters. Hams interested in public service and emergency communications are encouraged to volunteer by contacting the communications coordinator, Joy Matlack KD6FJV, at **pyrrho@cogent.net** or (714) 220-0318 immediately.

For more information or for a sign-up form, you can contact me at the address above or at (909) 677-2446. The race's official website is

<http://bakervegas.com>

Paul Stack

One of our club members, Paul Stack who lives in Vista, is a prolific writer of books. Here is a listing of some he has authored -

The Nail; Lazarus' Cross; The Million Dol-

lar Home Run; From Hel to Paradise; Bruster the Rooster; The Adventures of Little and Big Whiskers; The American Mailbox; Radio ASngels; The Son of a CB'er; The pool Shark; The forbidden Ham; Snakehound; Shana; and The Spear of Longinus.

XE Operation USA

Hi Stan, The FCC has an information bulletin on their Wireless Telecommunications Bureau's website at

<http://www.fcc.gov/amateur/recipe.html>.

The bulletin explains how hams from other countries may operate in the U.S. under section 97.107. Section 97.119 advises how foreign operators in the U.S. identify their station. You can click on both these sections when you log onto the above e-mail address.

Please note that no U.S. Citizens, regardless of any other citizenship also held, is eligible for reciprocal operating.

If a ham has a question concerning this matter, please have them call the FCC's National Consumer Center at 888-CALL-FCC, or visit the FCC's website at www.fcc.gov.

(info via June FCC SD Office -Ed)

Zip Codes

Years ago the Post Office in an attempt at computerizing the mail system dreamed up the 5-digit ZIP code which we are now quite familiar with. In fact, some of you have been aware that several years ago this was changed to 9-digits: the basic 5-digits plus four more which split each ZIP code into thousands of smaller sectors within the basic area ZIP.

Not content with the 9-digits, a year or so ago the P.O. added two more digits which consisted of the adding of two more digits which allowed computer sorting of the mailman's route so that the mail could be placed in his or her bag in the order of the walking route.

For example, your editor's address is 30311 Circle R Lane, Valley Center. So, my area ZIP was 92082. Then, when that was sub divided, it became 92082-4806. The next two numbers they added represented the last two digits of the house number which in my case was 11.

Hence, my new ZIP code is now

92084-4806-11 which I have been using on all correspondence for the past year except that my mailman, who is a female mailman, objects saying that she knows me by name and not by the last two digits of the ZIP code even if it does tell her which side of the road I live on.

I will always remember "the good old days" when my parents received a letter from Florida with nothing on the face of the envelope except for their ZIP of 46573 and their picture. The letter was promptly delivered to them!

Now, the P.O. is about to screw up the club's data base and **W6GNI** Al is going wild trying to figure out how he can increase the number of digits in the club's membership data base beyond the 9-digits which will soon be required by the P.O.

The new ZIP, which will soon go into effect, will require the now normal 5-digit ZIP plus the 4-dig sub ZIP plus a 2-digit sub ZIP indicating the the last two digits of the house number or box number. In addition to these two seldom used numbers, two more numbers are being added so that we will have 5 + 4 + 2 + 2 for a total of 13 digits in all ZIP codes. We can hardly wait! This and the increase in postage will probably kill many of us.

These new last two digits are broken up so that the first of these digits represent a) the color of the house being represented by the resistor color code (black-brown-red-orange-yellow-green-blue-violet-grey-white) (only an amateur radio operator in the P.O. could have thought of this one) and b) the last of the newly added digits being a number from 0-9, using the above color code, indicating the predominate color of the average member of the household.

Your editor's new ZIP now becomes **92082-4806-1119** which should be fairly easy for me to remember. The notice the club received on these changes indicates that they are to take place on April 1st which is after this newsletter hits the streets so our worries are delayed for a month until the May newsletter.



For Sail

(03.20)Kenwood TS-450SAT HF Rig \$500; Kenwood TS-60 6m All Mode \$500: Rod AC6V 760-945-6050 ac6v@amsat.org Ocsd.

(03.15)Telex 50' crankup on ground, rotator, Hy-Gain 3el triband beam, coax cable, Yaesu FL-2100B linear, misc, \$300: Art K6HU 619-697-1538 S.D.

(02.19)Drake MN-4 300 Watt Antenna Tuner \$95; Alpha Delta DXCC 80-10m shortened dipole \$40; Astron RS4A P/S \$20: Herb - KO6Z - 760-736-4095

(02.18)Ham radio station (complete) w/Yaesu F"7T-1000D with antennas \$4,500; (best offer for following) MDIC8 Yaesu mic; Alinco DR1200T data radio; Packrat PK-232MRX data controller; Time Wave digital noise filter; MFJ-422BX Benchner paddle keyer; Benchner Iambic paddle, MFJ Versa Tuner 989C 300w; Tektronic 454 oscilloscope with probe; 12v Micronta Reg 12v P/S; Eico DC Reg 0-30v P/S; Astron 12v P/S RS20A; pkt cluster guide: Erwin AB5XE

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

TOROID CORES

Palomar stocks a wide variety of cores and beads.

Our RFI Tip Sheet is free on request.

Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. Model RFI-4 \$25 + tax + \$6 to ship.

BALUN KITS

Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).

Model BA-58 (for RG58, RG8X & similar cables up to 1/4" dia. \$7.50 + tax + \$6 S&H/order

Model BA-8 (for RG-8, RG-213, 9913 and similar cables up to 1/2" diameter. \$15.00 + tax + \$6 S&H/order

TUNER-TUNER

Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

Model PT-340 \$99.95 + tax + \$6 S&H

See catalog at www.Palomar-Engineers.com

Please check our complete ads in QST, 73, CQ, and World Radio magazines.

Personal equipment ads are free to members and could be "bumped" after 3 mo. Make up your ad like the ones below and send to Editor, W9FQN, 30311 Cir. R Ln, Villy. Ctr. CA 92082, (W9FQN@Juno.com) before the 20th of each month.

Commercial Ads in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought. W9FQN@Juno.com

909-301-8823.

(02.07)Kenwood TS-440S HF xcvr; Astron RS20 A pwr; MFJ-949E ant tuner; Mike & manuals \$700: Oliver W6UAL 940-4274 Vista.

(02.07)1kw in dual Bud cabinet 5'9x41" panel space 2(61"x19"), 4-plug-in coils 80, 40, 20, 10, variable & fixed caps, uses 2 Eimac 4-250's, switch class C or linear B, separate supplies screen, neg bias, control panel variac, push start, run a & off, breaker on hi-volt supply, indicator lights, pwr/VSWR URA27 panel, HV pwr supply 4000v @ 0.5A (variac ctrl); other side of rack class B modulator 600 watts, pr 810's drv pr 6B4's with 5u4 supply & VR75 reg, separate hi-volt supply 4,000v @ 0.5A, 37"x19" open space available: WB6BKR John 858-454-4833 gehmansr1@juno.com **WOW!**

(01-20)small Boys 6 Speed Bike Excellent condition! \$50 firm: AB6QT 760-742-1573 after 5pm.

(12.14)Heath VTVM w/RF probe/manual \$35; KW SWR(separate sensor/meter) \$25; Selection heavy duty switches, coils & var. condensers for KW project; MAC Performa 630CD w/monitor, 56 modem, printer, scanner, lots of software/handbooks offer?; 2 ANTIQUES for bids (Circa 1925 Magnavox audio Fq. Amp. Type AC3, Mod. C, No.2236 using 3 type 01-A push-twist tubes, external 'A' & 'B' batteries; Circa 1933 Heintz/Kaufman Ltd San Francisco Radio receiver regenerative type 900 # 113, 3800-23000kc, US Patents 1,507689-1,907,806 \$400+): Larry W6LCT Vista 760.724.9996 B4 5pm or

Reaching Amateur Radio Operators for Christ

Reaching Amateur Radio Operators for Christ meets each Sunday at 7:00p.m. on 147.270. All HAM operators are welcome to drop in and share scripture or just listen. KF6VHA

7-9pm daily.

(12.11)Mint Yaesu FT-690 MKII, w/spare speaker-mike & battery case \$300, Includes box & paper work: Peter VE7 CQA (858) 942-5502

(12.10)Heathkit SB-104 w/remotely VFO & Pwr supply, buyer to make tax deductible donation to private school: Rick KB6GZ 858-566-4016.

(12.10)Siltronix 1011B Transceiver \$150; Palomar Messenger 2V Linear \$50; Siltronix PM-15 w/w Spec. Watt meter \$40; Realistic CB Base W/SSB TRC-457 \$100; Big Stick Antenna \$35; 2 meter Ringo Ranger antenna \$50; NO RESONABLE OFFER REFUSED. For more information call Dave @ (760) 7275560, E-mail wb6dav@juno.com This gear is from an estate sale and all is believed in good working condition in San Marcos.

(11.10)Kenwood ant tuner (AT230); remote VFO 230, transceiver TS 530S & mic MC 35S, Mint cond \$600: KF6HHE Richard (760) 598-8289.

(11.10)I-COM 735I w/pwr supply, MFJ deluxe tuner II, I-COM SM5 mike, MFJ electronic paddle \$700: KF6HHE Richard (760) 598-8289.

(9-19)N6OLE Home made Grid Dip Meter with docs, must see to appreciate this work of art(Best Offer); Sears ROAD-TALKER40 SSB XCVR \$50; military throat mic + headphones BO; Precision "Steel Six" lab mtrs. \$5 ea; Proximotor I vehicle det. \$2; Olson CB067 Swr Mtr. \$3; Keithly Auto R. Mtr. \$15; Motion Det. Solfan 5240 \$5; 25v.3A Reg. Pwr Sup \$20; Sabtronics Freq. Cntr mod. 8110A \$20; Healthdyne Lab digital thermometer mod. 2000 \$5; call AB6QT at 760-742-1573 after 5pm.

WANTED: (A few good men/women)

(03-19)Wanted: replacement Power me-

Jeff N6FRW

Grace N6WPA

The Nicd Lady Company

O.E.M. Assembly
Rebuilds
Batteries-Lead Acids
Replacement Packs

20585 Camino Del Sol Unit B (909)653-8868
Riverside, CA 92508 Fax (909)653-5189

www.nicdlady.com e-mail: nicdlady@nicdlady.com

ter for Yaesu FL-2100B linear for disabled Romanian Ham, any help greatly appreciated: Mark KD6TB (858)485-0513 or KD6TB@hotmail.com.

(3.10)Wanted: CTCSS board something like a TE-32 or 64 for older radio: Dave WB6DAV@juno.com San Marcos (760)727-5560.

(03.01)Wanted: I'm going to Europe for three weeks this summer and would like to temporarily swap my dual-band HT for a 2m HT with European repeater access tone burst. Dave KF6XA@qsl.net 909-677-2446.

(02.25)Wanted: C.W. keyboard for ham xcvs: Paul 760-726-5007 Vista.

(01.20)Wanted: Reasonably priced HF rig (WARC bands) w/pwr supply mic & manuals. Ant. tuner desired: Ted K6BPP 760-471-2558 San Marcos.

(01.18)Wanted: help in re-programming Motorola Radius P110 UHF radio (4 simplex channels around 467 MHz.): Peter VE7 CQA (858) 942-5502

(01.09)Wanted: 13.8v 20amp P.S. & 80-10m HF vertical. Offering fair price for used equipment: jacox@home.com

(12.15) Wanted: I'm looking for copies of a series of articles that appeared in some old issues of QEX. Specifically: "Signals, Samples, and Stuff", March through August 1998 issues of QEX. If anyone has these, please send an email to: Vito at -vbica@clea.qualcomm.com

Grab Bag at Mtgs.

At the next club meeting W9FQN Stan will have some more of the club's buckets of valuable junk at a table near the right wall (at least it is not the wrong wall:) small parts, radio books, magazines, HT belt holders, etc. Some items are priced 4/\$1 and other buckets 2/\$1.

Wanted

Disabled Romanian Ham needs replacement Power and SWR meters for a Yaesu FL-2100B Linear. Any help will be appreciated. Mark KD6TB (858)485-0513.

I also have a 30 year accumulation of QST and miscellaneous magazines that I need to 'place in a good home'. If you know of anyone who would like them or if the PARC could use them I would be happy to donate them.

Keep up the great work on the Scope. It is always a pleasure to receive it and read through its pages.

Thanks. 73, Mark, KD6TB

Going Home (on the range)

N6GNB Al Fahnestock & N6GWJ

Micky Fahnestock are planning on moving to a retirement home soon and have the following items for sale:

2 METER STATION: Manuals for all units;
Kenwood TS-711A/E 2m all mode scvr \$350
Kenwood MC-46 mike with touch tone pad 25
Kenwood SN-50/sw-100 Power meter 30
Kenwood TM-241A, 144 mhz mobile xcvr 125
Kenwood R-1000 Communication Receiver with Eaves dropper ant., 2 polls 125
Daiwa, CN-630 swr & power meter 60
Mirage, B108 2 meter amplifier 10w/80w 100
Alliance HD-73 Heavey Duty Rotator, control box, Cable, 8 element Hy-Gain Beam 2 meter Ant. Push up Mast. For all only 110
Daiwa CS-201 coaxial switchs. 4 mounted on a panel to switch between 2 radios and 2 antennas \$20 each or all 4 mounted only 60
Ringo Ranger ARX2B- 2 meter antenna with push up mast & Tri-Pod stand 60
Astron RS35M Pwr supply w/meter 100
AEA PK12 packet controller 50
Yaesu FT-23R HT Large Battery 2-5 Watts. soft leather case, charger 75
Yaesu FT-23R HT Large battery 2-5 Watts. Hard leather case, touch tone pad & charger 125
Yaesu MH-12A@B Spkr Mike for HT 25
RadioShack RS100 pro-25 Dig. Scanner/ant. 110
V12, Wv-120B Power Monitor 25
Valor/Procom 1/4 wave Mag Mount Ant 15
HT Antennas various type 1/4 - 5/8 wave 5-10
Radio Shack 8 ohm speakers 5-10
Radio Shack Speaker for telephone 5
Wilson Mag. Mouny Ant. Base only 5
AEA AC-1 DIA-4812 120vac/12vdc 1A xfmr 20
Shinn FU I-6001 12vdc recharg pwr sys port 15
Pico Quartz World Time, battery operated 15
GE Casset Recorder 3-way pwr 10
Power strips 12vac each 5
N6GNB Al Fahnestock, Fax (760) 741-5268 ~ Home Phone (760) 741-1840 ~ Email, ulrich525@aol.com. Escondido, CA92027

ARRL/ARES (Web Page)

Be sure to check out the San Diego ARRL/ARES Web page at:

<http://www.qsl.net/sdgarri>

Join the ARRL!

Committee Chairmen

(appointed to serve Sept '99)

ARESinfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Stan R	W9FQN@amsat.org
ATV	-Bills KB6MCU	W6GIC@amsat.org
Auction	-Ted W	KD6BF1@amsat.org
Badges	new -Al	W6GNI@amsat.org
	old -John T	W6OLQ@amsat.org
Batteries	-David KD6EY DAT@Gerry.Palomar.caltech.edu	
BBSMonitor	-Bill B	N6FMK@amsat.org
Billing: Ads/etc-Lyell K		K6GVM@arri.net
By-laws	-Paul KF6VIE	pdecicco@pondlaw.com
	& -Ron RWA9JCL	r3mb@concentric.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps	-filled	W6NWG@amsat.org
D.Mar Fair-Barbara R KA6FPS		Tennis42@Juno.com
Emergency QTH's (Emergency Com. Centers)		
	HarryH -W6YOO	W6YOO@amsat.org
	DennisV -N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
	FDTech. -John K	WB6IQS@Juno.com
Historian	-Stan R	W9FQN@Juno.com
Interference	-Bills KB6MCU	W6GIC@amsat.org
Inventory	-Dennis B	dennisKD6TUJ@juno.com
MtgGoodies	-Jim E	Whisky6SST@juno.com
Membership	-Al W6GNI	aldonlevy@juno.com
Nets	-Stan R	W9FQN@Juno.com
Newsletter	-Stan R	W9FQN@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@Juno.com
PatchETronics-Jerry H		WB6FMT@amsat.org
Picnic	-Marsh P	W6SAX@amsat.org
PowerAC/DC-Mike P		KD6VHI@amsat.org
Programs	-Charlie R	NN3V@ARRL.net
Publicity	-Fred S	K6ISS@amsat.org
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag-	W6HCD	NashWilliams@Compuserve.com
Rptr Site	-Stan R	W9FQN@Juno.com
Rptr Skeds	-Stan R	W9FQN@Juno.com
SANDARC	-Sybil A	W6GIC@amsat.org
	-Bill S KB6MCU	W6GIC@amsat.org
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir-Walt		WA6ODQ@arri.net
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@worldnet.att.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org
Web Site	-Frank L	KE6WOF@amsat.org

(Net Managers) (see pg.12)

ARES Sun	-Stan R	W9FQN@amsat.org
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-Mike D	AB6QT@amsat.org
	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P KE6ZLY	KE6ZLY@Juno.com
MARA	-Cathy KE6IQU	W6NWG@amsat.org
Microwave	-Kerry B	N6IZW@qualcomm.com
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W KA7AYT	rwilimek@home.com
Sailors	-Larry D	W6QCA@amsat.org
Traffic(SDCTN)-CharlesN6TEP		cmiele@juno.com

Names in heavy type are looking for replacements. Appointed members serve until they find a replacement that is approved by the Board.

Questions about club policy or for information can be addressed to W6NWG@amsat.org or P. O. Box 73, Vista, CA 92085-0073.

Repeater Status 03.26.01

146.730+ : Normal, mixing noise?
147.075- : Normal, no problems
147.130- : Normal, no problems
147.000- : No DC when on emg pwr
52.680 : Normal, no problems?
146.700- : Packet Repeater Normal
145.050s : Packet Digi Normal
PALBBS : Bulletin Board Normal
AutoPatch : Problem at Rpt Site
ATV : No observed problems(?)

Work Parties

May 5th MARA Brush at Rptr Site
May 6th Regular Site Work Party
Jun 10th Regular Site Work Party
Jun 22nd Field Day setup VillyCtr
Jun 24th Field Day takedown V.C.

Work Parties (trabajo)

(General workparties are usually scheduled the first Sunday after the first Wednesday Club meeting -Ed)

Next general workparty: there are no scheduled repeater site work parties until further notice because of unfavorable weather.

(03.02) **KB6MCUBillSmith** and **K6QLDaveFender** went to the site to make adjustments in the ATV transmitter.

(03.03) **W9FQNStanRohrer** visited the site to put an end to the leak found by **KB6MCU**.

Battery Bldg. (charg holder)

The club's original block building has all of the repeaters removed from it so that the 24 new cells can be installed this summer.

This will give the club two battery buildings. The original shed with 14 cells (blocks of 7 cells making two batteries) and the old block building with 24 brand new cells.

These cells are rated at 1.52 volts each, weight 350-400 pounds each, and are in clear plastic cases. When the time comes to move them, we will be needing trucks to haul them to the site.

KD6VHM Mike Pennington is in charge of the project and has started to weld up the steel shelves needed to hold

Technical, autopatch, repeaters, etc:

AB6QT@amsat.org (Rptrs); W9FQN@amsat.org (autopatch/work parties)

pg.9
-45-
1,525

these large heavy cells.

This will be a rather difficult and long project since it involves -

- + adding an outside shed for chargers
- + rewiring some of the DC circuits
- + welding up racks for the cells
- + hauling 24 batteries to the site
- + installing charging equipment

When it comes time for installing the racks, we might need some help during the week when Mike has time off. We will put out a general call for help when that time comes. (W9FQN)

Frig.Bldg.Leak (drip-drip)

Stan Rohrer

W9FQN@Juno.com

The trip up Palomar Mountain to repair the leak in the Frig. building was uneventful. At about 3,000 there was a sign that said that "chains are required on all vehicles" which I decided to ignore considering that the road was completely free of snow.

About 3,500 feet I started seeing little traces of snow along side of the road. Probably left over from the snow plows.

At 4,000 feet more snow along the side of the road but snow was not observed on the ground until about 5,000

feet.

I made it to the top of Palomar without any snow or ice on the road but had to pass several signs saying that chains were required which I don't think instills much confidence in signs by the general public. It reminds me of the miles and miles of straight roads here in SDCo with double lines which we are teaching the public to ignore!

At the entrance to the lane going back to the repeater building the snow was piled several feet high ... almost like a gigantic speed bump (tope in Spanish).

I saw tracks of other vehicles entering our lane so I shifted the Blazer S-10 into 4-wheel drive and started to attack this giant tope when I noticed that there was lots of snow on the other side and deep ruts on the other. So I decide to find a parking spot just off of the main road and hike in as **KB6MCU** did the day before.

Getting off the side of the main road was no small task with snow banks several feet high. I found a place where I thought I could make it so in 4-wheel drive I jammed into the snow several

From MILLIWATTS to KILOWATTS

RF POWER TRANSISTORS - TUBES - POWER MODULES

Best pricing on U.S. & Russian Transmitting & Receiving Tubes

3-500ZG - 3-600Z - 811A - 572B

4-400C - 6146B & W - 8072 - 8560AS - 8873 - 8875

3CX400A7 & U7 - 3CX1200A7 & Z7 - 3CX1500A7 - 3CX3000A7

4CX250B & R - 4CX400A - 4CX1600A - 5CX1500A

Plus full inventory of Broadcast Tubes to 20KW

Complete Inventory for servicing Amateur and Commercial

Communications Equipment

Transistors - Modules - Diodes

Relays - Trimmers - Capacitors

Heatsinks - Transformers - Chokes - Combiners - Wattmeters - Books

Send for your FREE 2000 Catalog at

e-mail: rfp@rfparts.com

(800) RF-PARTS - (760)744-0700: fax (760)744-1943

RF PARTS, 435 S. Pacific Street

feet, backed up, and charged in again ..back and forth until I had my rear end (the car) off the road.

I had brought a fair amount of equipment along with me to seal off the Frig. from rain and melting snow. I took my wooden ladder off of the roof mount, loaded it with as much equipment as possible, and started to pull it into the site sort of dog-team fashion or like the Indians use to move their abodes on to long poles by dragging with a horse. So I sort of "horsed around" and finally made it into the side with only minor problems.

After inspecting the inside of the Frig. for water damage (nothing on the repeaters), I crawled on the roof into about 18 inches of snow and slush.

Using a hoe, I hoed off all of the white stuff ... this was work so I took off my jacket (one of them) ..when everything was clean (almost), I took off my gloves and proceeded to "swish" off the water with my bare hands ... being from Indiana years ago, I had forgotten how cold that could be.

With the roof now clean, I installed a tarp and used 1 roll of silver duct tape to tape it into place. Then I stacked boards and other objects on top of the tarp in hopes it would all stay in place for the rest of the winter until we had warmer weather for a good repair.

Inside the Frig. there was water standing on a small section of the floor. **KB6MCUBillSmith** the day before had drilled a hole in the floor to let it out. The problem here was that it was a false floor with a metal bottom.

I took some of the items back to the car and brought back a drill. I enlarged the hole and tried to drill a hole through the metal floor below but am not sure if I succeeded ... but the lake below gradually seemed to abate so I must have made some sort of impression.

So why this long discussion about traipsing into the repeater site?

Well, the piece is meant to be a thank you to all those that have been into the site for the club over the years to make emergency repairs to our repeaters:

WB6IQSJohnKuivinen (for years)

KB6MCUBillSmith

AB6QTMikeDoyle

...and the many others who have made the trek into the site during the winter months to take care of club equipment.

THANKS!

Palomar Mt. Snow

The CHP has closed the roads to the top of Palomar Mt. several times this year to all vehicles without chains.

The locals figure that they have had about 55 inches of snow this season!!!

All of the now has made it difficult getting into the repeater site on the gravel road ...and even more difficult getting out of the site.

This year **KB6MCUBillSmith** and **W9FQNStanRohrer** both had to walk into the site within two days (2 trips for each) hauling in items. **AB6QTMikeDoyle**, PARC Technical Chairman, also got to play in the snow several times.

RF Safety *(don't get burned)*

All amateurs should remember that they need to comply with the January 1st FCC new set of rules in Part 97 of the Rules and Regulations dealing with Restrictions on Station Location.

The following is quoted from Sec. 97.13 Restrictions on station location.

(c) Before causing or allowing an amateur station to transmit from any place where the operation of the station could cause human exposure to RF electromagnetic field levels in excess of those allowed under Sec. 1.1310 of this chapter, the licensee is required to take certain actions.

(1) The licensee must perform the routine RF environmental evaluation prescribed by Sec. 1.1307(b) of this chapter, if the power of the licensee's station exceeds the limits given in the

following table:

Evaluation required
if watts exceeds

MF	
160 m.....	500

HF	
80 m.....	500
75 m.....	500
40 m.....	500
30 m.....	425
20 m.....	225
17 m.....	125
15 m.....	100
12 m.....	75
10 m.....	50
VHF (all bands).	50

UHF	
70 cm.....	70
33 cm.....	150
23 cm.....	200
13 cm.....	250
SHF (all bands)	250
EHF (all bands)	250

For those interested in obtaining a copy of a program which does all of the calculations quickly for you, you can download the program from -
[//members.aol.com/cqvhf/97issues/rfsafety.bas](http://members.aol.com/cqvhf/97issues/rfsafety.bas)
or from the ARRL web site of -

<http://arri.org>

Your editor has a copy of the program in his computer and if you would like to have it sent as an attachment, contact him at **W9FQN@Juno.com** on March 31st and he will send you a copy.

Patch Numbers

The computer program running the club's autopatch system has been loaded with the prefixes provided to us by the Pacific Bell telephone book.

For example, in the beginning of the phone book is a section called **Customer Guide** which lists **Local and Nearby Calling** prefixes.

Page 25 in my phone book marked "good until November 2001" is a listing of all of the prefixes that can be called from a Vista telephone. Of course, our

Northern patch is in Vista so we copy all of the prefixes listed under Vista into the giant computer as approved prefixes that we will allow to be called from the Vista patch. All other non-listed prefixes will be disallowed or killed by the watchdog computer.

The listing under Vista is not a complete listing of all the prefixes that can be called from Vista since any published listing of prefixes is "old" the day it is published! The phone company keeps adding new prefixes (without consulting PARC) all the time and the phone company also does not list all of the new cell phone prefixes.

This all means that if you are trying to call a cell phone or a newly added prefix, the computer will not complete the call. It will kill it.

It is true that some of you have contacted W9FQN about several new prefixes and they have been added to the computer list. Also, several of you have contacted him about cell phone prefixes and these have been added with the understanding that if PARC gets charged for them that the cell phone number will be dropped from the approved list.

While the splitting up of the old 619 into 858 and 760 was a pain for PARC in the first place, it does open up the possibility for simpler dialing if they keep going in the direction they were headed before being stopped by public reaction.

The 760 area not only covers all of North County which is covered by the Vista patch connection, but it also covers into Palm Springs and up north. So we need the "watchdog" computer to make sure that all calls are going to North County and are not long distance outside of our area which the club would have to pay for.

Now, if the new 442 (or something like that) comes in for North County, it is our understanding that it will cover ONLY north county which would mean that we could accept ALL prefixes dialed without having the watchdog computer checking them. This would simplify our dialing problems and the need

to update prefix lists. These comments also apply to the middle and lower SDCo patches and just not only to the Vista patch.

So, if you have dialed properly, and your call does not go through, your call is probably being directed to a non-programmed prefix that we are not aware of so be sure to contact **W9FQN** with your problem and we will try to get the prefix added to the "approved" list of prefixes.

Contests

Harry Hodges W6YOO@amsat.org

Apr 7 Polish DX Contest
Apr 7 Spanish RTTY Contest
Apr 8 UBA Spring Contest, SSB
Apr 13 Japan Int'l DX Contest
Apr 14 EU Spring Sprint, SSB
Apr 21 Michigan QSO Party
Apr 21 Ontario QSO Party
Apr 28 Helvitia Contest, CW & SSB
Apr 28 Nebraska QSO Party
Apr 28 Florida QSO Party
May 5 NV, MA, CT, IN, OR QSO Parties
May 5 10-10 Contest, CW
May 12 FISTS Spring CW Sprint
May 12 Italian WW RTTY Contest
May 12 CQ-M Int'l DX Contest

Lots of stuff going on this time, DX, CW, RTTY, and state QSO Parties. Time to add to your DXCC and WAS counts. Rules may be found in QST, Worldradio, CQ and National Contest Journal magazines. See You In The Contest 73, Harry, W6YOO

DX Path (road to contacts)

For those interested in DXing and possibly Field Day propagation predictions, it is possible to download the famous VOACAP software from the www.

VOACAP, after inputting various station parameters, will list information on what signals might be like to any spot on the earth.

The following advice is taken from the World Radio Magazine ...

1. go to <http://elbert.its.bldrdoc.gov>
2. click on **High Freq HF propagation**
3. click on **HFWIN32**
4. click on **README.txt**
5. click on **here** in "Tech manual"

6. click on **here** in "Orig User Manual" pg.11
-47-
1,527

7. click on **here** in "install from your hard drive" line to download the software to your PC.

If you follow these steps you should end up with all of the needed instructions and the VOCAP program.

Patch Hours

The club's autopatch system is presently on the air 24 hours a day and 7 days a week.

Turning the electronics ON and OFF is a rather easy thing to do with timers but turning the computer off causes problems since the QBASIC program that runs the patch would have to be loaded each morning.

The way it is now, the program resides in the computer sometimes for weeks until some modification has to be made to add someone to the PIN or BOX listing.

It seems that I remember someplace that it would be possible to have the autopatch program load automatically when turned on but I don't remember how that is done. Any suggestions?
W9FQN@Juno.com

Tie Wraps

I usually save tie wraps from cords, Vons, etc but they never seem to be the correct length to tie up the cables I am working on.

At Vons the other day I ran into something called Bright Buys that turns out to be a neat little package of 100 ft of Twist Ties plus a built in cutter. You pull out as much as you need and cut it to that length. (W9FQN)

Auction EARS

The Escondido Amateur Radio Society will hold their annual auction on the 4th Tuesday of April, the 24th.

PARC members are invited to participate in the fun and drag something home that they can then sell at the PARC auction in October.

PARC NETS (04/00)

All 147.075 10-11pm MCW contacts

All 147.130 2130+ pm Facitious Group

Sun.146.730 8:30am AREmergency Service

Sun.147.075 8:45pm MARA Net

Mon.146.730 7:15pm RACES sub Net

Mon.146.730 9:00pm Microwave Net

Tue.146.730 8:00pm Traffic Net (SDCTN)

Tue 146.730 9:00pm Off Roading Net

Thu.146.730 8:00pm Traffic Net (SDCTN)

Thu.146.730 9:00pm Ham Help Net

(electronics, computers, antennas, license theory, etc.)

Fri.146.730 9:00pm Hiker's Net

Sat. 146.730 8:00pm Traffic Net (SDCTN)

Sat. 52.680 8:00pm 6m ARES Net

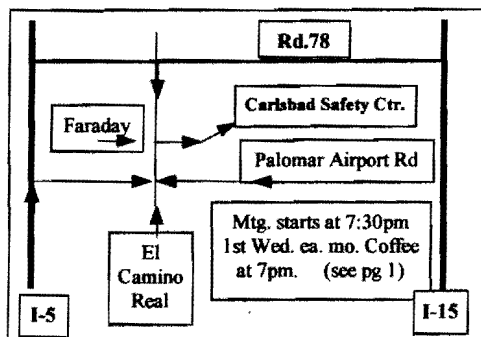
POSTMASTER: Send address
changes to Scope, P.O.Box 73, Vista,
CA 92085-0073 (also on page 1)

Time Dated Material



Apr.
2001
pg.12
-48-
1,528

Periodicals
Postage Pd.
at Vista CA
92085-9998



cover me!

Fold, I am old and cold. I am told!

PARC Web Page (KE6WOE)

<http://members.home.net/parc/>

OPEN Repeaters/CLOSED Patches

Palomar Mt. Repeaters (W6NWG)

PARC Trustee of W6NWG: AB6QT

*52.680- W6NWG, -0.5 MHz

Autopatches(4): 146.730-, *147.075+

*147.130+, *447.000-

PKT: 145.050s (PALMAR/W6NWG-1)

146.700-(Duplex Pkt) PALBBS/EMG use

145.070/146.7- (W6NWG-3/PALBBS)

ATV "OUTPUT": 1241.25 MHz AM

ATV "IN": 915wbfm, 919am,

2441.25wbfm

Intercom: 146.415 PL 79.7 nbfm

Affiliated:

*224.38- & *224.94- KK6KD(HARS)

*447.05- & *145.26- KK6KD(HARS)

*146.175+ N6FQ(FalbrkARC) linked

to *445.600 MHz (-)

*224.90- WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

*=107.2 Hz

Pg. NEWS WORTHY

01 Club program; 33-34¢; photo

02 Board Mtg.; AGOGO; Last; Goodie; Fold & Staple; Board Mtg.

03 Officers; Treas; PresMsg; more Goodie;

04 F&S Workers; Membership; notes; Classes

05 MMTTY; NVIS; Blimp; .hk; HR817; 220

06 Challenge Cup; Paul Stack; XE; Zip Codes

07 For Sail; Wanted

08 Grab Bag; Wanted; Going Home; ARES

09 Work parties; Battery Bldg; Frig Bldg;

10 Palomar MtSnow; RF Safety; Patch No's

11 Contests; DX Path; Patch Hrs; Tie Wraps;

EARS auction

12 You are looking at it!

(do you always read the fine print?)
and even this!

Repeaters in Use

Please schedule special repeater use at least one month ahead of intended use with W9FQN:

PARC 2001 Calendar

April 2001 -

04 Wed, Club Mtg. 7:30pm, Carlsbad Safety Ctr

11 Wed, Board Meeting W9FQN QTH

14 Sat, PARC Testing, Carlsbad Safety Ctr

(more fine print)

Join the ARRL

see KB6NMK

PARC Testing - tests given each 2nd Saturday at 9:30 am in the Carlsbad Safety center in Carlsbad. Contact Rusty AA6OM at 760-747-5872 or at

DuneDancer@worldnet.att.net

Register 5-7 days in advance for tests.

Escondido Testing - examinations on the LAST Saturday @ 9:00am, Chamber o. Commerce, 720 N.Broadway, Esc 92025. Contact Harry W6YOO 760-743-4212.

Web Pages

PARC's Home Page - KE6WOE

<http://members.home.net/parc/>

Rod's General Home Page - AC6V

<http://ac6v.com/>

Tom's Hiker's Home Page - KF6PAZ

<http://www.fanciful.org/san-diego-hiker>